

FORMER MARINE CORPS AIR STATION

EL TORO

PUBLIC MEETING

JULY 27, 2005

6:30 P.M.

PROPOSED PLAN

FOR

NO FURTHER ACTION

OPERABLE UNIT 2A SITE 24 VOC SOURCE AREA

IRVINE CITY HALL

IRVINE, CALIFORNIA

ORIGINAL

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1 PUBLIC MEETING

2 JULY 27, 2005

3

4 MR. ANDY PISZKIN: My name is Andy Piszkin. I'm the
5 BRAC Environmental Coordinator for the Marine Corps Air
6 Station El Toro. I guess the former Marine Corps
7 Station El Toro.

8 Tonight we are holding the formal public
9 comment period meeting to take comments and questions on
10 the Navy's Proposed Remedial Action Plan for the soils
11 at Site 24, which is the Volatile Organic Compound
12 Source Area, better known as Site 24.

13 A little bit about the program. We had a
14 little bit of a good meet-and-greet for the last 15
15 minutes. Most of the people are being paid to be here
16 and have name tags on from the Navy, the consultants,
17 your state representatives from DTSC, Department of
18 Toxic Substances Control, as well as your federal
19 representative from the U.S. Environmental Protection
20 Agency; they are also in the room.

21 We're going to have a formal presentation on
22 the Proposed Plan with a little historical aspect of the
23 site, because we have done some action there. And then
24 we'll have more of a formal public comment-and-question
25 session at the end.

1 There's a handout, pretty much for our
2 Restoration Advisory Board meeting that is going to
3 follow this meeting at 7:45, that identifies the
4 location where you will get additional information to
5 review the Navy's Proposed Remedial Action Plan at
6 Heritage Park Library in Irvine, as well as the
7 Administrative Record File that is located in Building
8 307 on former Marine Corps Air Station El Toro.

9 So this is the handout. I don't have an
10 overhead of this, but it's on the table over there.

11 If you haven't signed in, please do so before
12 you leave. And since we are having a Restoration
13 Advisory Board afterwards, that's a separate sign-in
14 sheet. So if you would sign in, we'd appreciate that.

15 When submitting comments, there is a variety of
16 ways to do it. It all needs to be done by -- I think
17 it's the 12th of August. And you would submit them to
18 me or you can e-mail them to Content Arnold, since I am
19 kind of living in a different location at the moment.
20 We want to make sure they get to the Navy.

21 There is a form you can use, if you want to
22 write down some questions and submit it in this comment
23 box here, to make sure it gets locked in. Don't hand it
24 to me or don't hand it to somebody else in the Navy,
25 because we want to ensure that it does get submitted.

1 We have Laura over here, the court reporter.
2 This is an official meeting for comments. If you don't
3 want to have an oral comment at the comment-and-question
4 period, you can sit over here and present your comment
5 to Laura for the official record. And I think that's
6 it.

7 If you did not get a mailing for the Proposed
8 Plan, it's a pretty quick read. It's pretty much just a
9 few pages. If you don't have one, there should be one
10 on the handout table, because it is what we're here for.

11 It's really a success story. It's good news.
12 Often you have a proposed remedial action and it's "Here
13 is what we're going to do to a site." This one is,
14 "We've already done something to this site and we are
15 here to say there is No Further Action. We have
16 remediated this site, and we have that support from both
17 your state and federal representatives." So that's
18 really positive.

19 I'm going to start the presentation, and Jeff
20 Stanek over here is going to do the second portion.
21 He's a consultant with Earth Tech. Earth Tech played a
22 major role in the remediation of the soils at the VOC
23 source area at El Toro.

24 I guess I need to start. Does anybody have any
25 questions before I get going? If you do have questions,

1 if there are clarifications, go ahead and ask them
2 during the meeting. This is not a hearing. I would
3 like to have more of a discussion about the site and
4 about what we are proposing, No Further Action, and then
5 kind of cut off the discussion. And if there's formal
6 comment and questions, we can do that afterwards. So I
7 want to be fairly relaxed about this.

8 Let's go ahead. Go to the second one.

9 The purpose of the meeting, as you can read, is
10 to involve the public in our proposed action. We've
11 been involved with the public at El Toro for probably
12 over ten years with the Restoration Advisory Board. We
13 have held numerous presentations. We have had field
14 visits. We've had lots of interface with the public.
15 And this is kind of the formability of all that hard
16 work that the Marine Corps and the Navy and our
17 consultants and the regulatory agencies have done
18 through the years.

19 We're going to go through a little bit of the
20 history. I said what our goals were, beginning back in
21 1997, when we were talking to you with a Proposed Plan
22 the first time at this site.

23 And then we will solicit questions and
24 comments.

25 A little bit of the Super fund program,

1 basically kind of an acronym for the Superfund sites.
2 We were put on the National Priorities List back in the
3 '90s, because of this Volatile Organic Compound that had
4 leaked into the soil, migrated to the groundwater
5 on-Station and created about a one mile wide by three
6 mile wide, fairly low, concentration level plumes out in
7 Irvine.

8 This site is the reason we were put on that NPL
9 list -- or the NPL. We are also signed up with a
10 Federal Facility Agreement, pretty much the same year,
11 later that year, with signators from the Navy on behalf
12 of the Marine Corps; the Department of Health Services,
13 at that time for the State of California, which is now
14 really the Department of Toxic Substances Control; the
15 Santa Ana Regional Water Control Board; and the U.S.
16 EPA. That agreement is legally binding and that is
17 pretty much how we managed the program.

18 The program in essence -- you can read this
19 stuff, there's a handout -- I don't know if we have a
20 handout -- there is a handout of the presentation.

21 First thing you do at a site is you assess if
22 there was a release. And if there was a release, what
23 is the nature and extent. That's provided in the
24 Remedial Investigation Report.

25 In that report there is also a risk assessment

1 that says if there is a release and it's above
2 groundwater, maybe there is some action that needs to be
3 taken. Let's do a risk assessment to see if action is
4 truly warranted.

5 If action is truly warranted, then you need to
6 say, "What can we do about it?" That's the feasibility
7 study. What alternative would resolve the concern and
8 reduce the risk and abide by the laws of the State of
9 California and the federal level?

10 So that feasibility study is where you have
11 alternatives that are evaluated. And from those
12 evaluations the responsible party, on this behalf it's
13 the Navy, would look at those alternatives and propose
14 one and have kind of basically an executive summary of
15 the program in a Proposed Plan. Go to the public and
16 say, "We've done all this work. We've done nature and
17 extent. We've done evaluation of risk. We've looked at
18 alternatives. How can we resolve this issue?" And we
19 have a recommendation. And we want the public to
20 comment on it.

21 And that is the stage we are kind of at, the
22 second time around for this site.

23 And then we look at the comments. We put a
24 responsiveness summary together, put in a record of
25 decision, and all the parties of that Federal Facility

1 Agreement sign it and say, "This is legally what you
2 will be doing."

3 Once we do that, we do a design based on that,
4 those goals, those Remedial Action Objectives. And then
5 we execute it. We construct what we need to construct.
6 We dig what we need to dig up. And then we close the
7 site.

8 Site location. Let's see, it's about a
9 200-acre location. It was kind of the industrial
10 quadrant of El Toro. We did a lot of degreasing of
11 aircraft, working with solvents, which was pretty
12 typical in that area. And this is basically two plumes.
13 This is kind of shallow groundwater and this is the
14 deeper aquifer.

15 And the next slide, which is a block diagram --
16 I must give credit to Irvine Ranch Water District, I
17 took this off of their website. That's okay, they
18 probably took it from us. But I officially -- with
19 Laura here, I better fess up. But it is kind of like
20 the greatest presentation. Because this groundwater got
21 us on the NPL in the first place. This is the culprit
22 which is our activities in the industrial area, some
23 solvents got in this soil called the Vadose Zone. And
24 you might be able to read this, it's like zero to
25 100 feet, roughly.

1 Good news and bad news. The bad news is, these
2 things were released into the soil, got into the
3 groundwater. Part of the good news is, there is an
4 aquifer below it that didn't allow it to go into kind of
5 the principal aquifer right away.

6 Most of the 1990s had the local water
7 districts, Irvine Ranch and Orange County Water
8 Districts, and the Navy negotiating a joint project
9 called the Irvine Desalter Project to resolve the
10 concern about this contaminated groundwater.

11 While it was going on, we already knew we had
12 plenty of contamination in the soil and there is only a
13 few known effective solutions to getting that out. We
14 went to an interim Proposed Plan and an interim Record
15 of Decision, because we're not going to disrupt the
16 negotiations on the groundwater. We didn't want to wait
17 for the negotiations of the groundwater. "Let's go get
18 the source out while the parties continue to negotiate
19 an implementable(sic) solution for the groundwater."

20 So we did an interim -- go back just one.
21 That's a description of southwest quadrant. Industrial
22 activities. Don't know the precise origin of the
23 solvents. VOC eventually reached groundwater.

24 Next slide.

25 MR. DON ZWEIFEL: Andy, I can tell you. I was here,

1 I was on the base at the time. I know the origin of the
2 solvents. And I think we discussed that once before
3 and -- there are employees that I've interfaced with
4 over the years.

5 And we go way back, predate '94. Way back,
6 '88.

7 MR. ANDY PISZKIN: I'm not as old as you, Don.

8 MR. DON ZWEIFEL: Older than God, yes.

9 As you know, we talked with several employees
10 that were on the site and they did --

11 MR. ANDY PISZKIN: I am not saying the specific
12 origin, did Bill Smith kick over a can or did Bill
13 Smith -- sorry if there's a Bill Smith in the house --
14 if there's an Andy Piszkin who used degreasing materials
15 to wash down aircraft or to clean parts or something.
16 Specifically we don't know, if we pulled a molecule of
17 VOCs out of the groundwater, did that come from
18 degreasing, was that an accidental spill, was that
19 something that was waste, was it a supply, a drum or
20 something like that. That's the understanding, we don't
21 know the origin of exactly what contamination is in the
22 groundwater and where it actually came from.

23 So thanks, Don.

24 Next slide. The remedial investigation. Lots
25 of soil gas samples. Let me see if I can get my notes

1 with that. Basically we did a lot of work. We polluted
2 this site with information, gathered a lot of data,
3 enough that we knew what it would take to resolve the
4 contamination in the soil.

5 Next we have got the depth. It does not pose a
6 risk to human health, the VOCs in soil. The
7 groundwater, it was elevated and it was because of that
8 trickle down migration from the contaminated soil,
9 contaminated groundwater.

10 Go ahead. And this is where I get back to what
11 you can do about it. Soil vapor extraction, I was
12 reminded today by the Water Board, is the most effective
13 known remedy to pull contamination out of soil, Volatile
14 Organic Compounds out of soil. The U.S. EPA has
15 identified it in their technical papers as a presumptive
16 remedy, saying if you've got VOCs in soil, you pretty
17 much know -- this is going to do it for you.

18 Now, there are other alternatives that you look
19 at in technology, but it really came down to, "This is
20 proven. It will work. It is right for your site. It's
21 a no-brainer. Get to it."

22 This is the basic schematic. It's in the
23 Proposed Plan, on how soil vapor extraction works.
24 Basically when you put in wells that have perforations
25 in the casings, you put a vacuum on it and it pulls any

1 air in the contaminated zone from the soil, through the
2 holes in the soil, and pulls it up. And it is put
3 through a treatment system, usually carbon. And then
4 the off gas is clean. And if the carbon builds up with
5 contamination on it, it gets recharged. It is disposed
6 of or recharged at a permitted facility.

7 It's a very simple system, different than
8 pumping groundwater, where you've got the weight of
9 groundwater pulling up 110 feet, cleaning it and putting
10 it somewhere. So it's very effective.

11 Next. The Proposed Plan. Back in 1997 is
12 where we initially said, "We've got a proposed action
13 and it's soil vapor extraction." And we met with the
14 public in May, a few years ago.

15 And go to the next one. We had a public
16 comment period, and we resolved and signed an interim
17 ROD. It was interim because it didn't address the
18 entire site. The media groundwater was still hanging
19 out there being resolved by the Navy, the agencies and
20 the local water districts. We did address the public
21 comments at that time, and we finalized and signed the
22 document. At the point of being interim, we did not
23 have an established final action level saying, "If we
24 got to this point in the soil, we will be done." We let
25 that -- that was an issue that was hanging out there,

1 and since it was interim, the Navy said, "We still want
2 to start." The agency says, "We still want you to
3 start." And everyone else in the community said, "It
4 would be nice if you started."

5 And without having that issue resolved, the
6 Navy went ahead and said, "We will start the extraction
7 program, not knowing exactly where we're going to stop,
8 but it was worth us starting. We will come back once
9 we're done and go to the public and go to the agency and
10 say, 'We had an interim action. We started the
11 extraction program, but we will come back and have
12 another proposed plan saying, 'Hear ye, Hear ye, we
13 think we're done. We've done the action and we will
14 come back and tell the public and get it blessed and
15 say, 'You have met your action criteria. There is no
16 risk. We can close this portion of the site.'"

17 Again, this is just the soils. So that's what
18 the interim action did.

19 There were some objectives, basically what is
20 our action going to do? Basically going to make sure
21 the soil is risk free. Maybe not risk free, but risk
22 was reduced for human health. And for the environment
23 we would not have that soil contaminating the
24 groundwater above drinking water standards. So if we
25 remove that source out of the soil, the groundwater can

1 be attacked in a different mode, but it is not
2 contributing to the groundwater contamination.
3 Basically what our goals were.

4 So right now that kind of brings us back -- it
5 didn't do anything new, it did what we had been doing
6 the last couple of years. The Proposed Plan from this
7 point on is: We have done that and Jeff is going to
8 come up and take it from here.

9 We have Jeff doing this, because -- well,
10 because he's good. He has worked on Norton Air Force
11 Base. That basically was, I don't know, kind of a
12 sister project that we really didn't know about -- but
13 they pretty much had the same concerns and issues about
14 what the VOC source area down at El Toro did. And they
15 had, just in the few years before El Toro, addressed the
16 same concern. John Broderick was the Water Board Rep on
17 Norton. He said, "You know, Norton just went through
18 what you guys pretty much are planning to do. And you
19 might want to look at theirs, because they have already
20 designed the system, they already built it and maybe you
21 can have it."

22 So we basically went to Norton, visited their
23 coordinator, talked to them. And their site conditions
24 were very similar to ours and, vice versa, ours was
25 similar to theirs. And they had already gone through a

1 lot of pain, agony and cost. And so El Toro decided at
2 that time, "We can save a lot of money. We can save a
3 lot of time. Let's go take their project equipment.
4 It's already been done. It's close enough to our
5 concerns and our needs, let's pull it over and have that
6 company who pulled that together come to El Toro and do
7 what they did so well at Norton."

8 So let me get my stuff out of the way.

9 Jeff, I will let you take over.

10 MR. JEFF STANEK: Thanks, Andy.

11 My name is Jeff Stanek, I'm a hydrogeologist
12 with Earth Tech, and I was very involved in the cleanup
13 at Norton. And I was fortunate enough to translate that
14 into involvement at Site 24. Both of them, as you will
15 see, directly related to Site 24. You will see what a
16 success it really was.

17 The initial design of the system at Site 24
18 began in 1998. And there was a further refinement of
19 that design that was in a published document known as
20 the System Evaluation and Optimization Report. And that
21 was issued in May of 1999. And this report essentially
22 is the final design document for the Site 24 soil
23 remediation. And this report optimized the design using
24 additional pilot test data. And very important, it
25 reevaluated the cleanup goals that were specified in the

1 interim ROD, and concluded they were indeed protective
2 of groundwater quality.

3 And then the final well locations and screen
4 depths were determined and the strategy for the cleanup,
5 system shutdown and confirmation sampling was also
6 provided in that report.

7 Here's a picture of the treatment equipment --
8 extraction and treatment equipment. This is when it was
9 actually at Norton Air Force Base. You have got
10 extraction equipment here, some very large vacuum
11 blowers. Some moisture separators and some noise
12 abatement devices. Some rather large conveyance piping.
13 And here are the treatment units that are comprised of
14 carbon filters. Each one of these held 20,000 pounds of
15 carbon.

16 Here's another close-up picture of the system.
17 This is the extraction blowers and the moisture
18 separators.

19 This is another angle of the equipment, for
20 your enjoyment.

21 The system, once the final design was completed
22 and implemented at Site 24, involved the use of 96 SVE
23 wells that were installed to depths of 110 feet, which
24 is where groundwater was located at Site 24. So that's
25 quite a few wells.

1 It also involved 7300 feet of linear -- 7300
2 linear feet of conveyance piping from the wells to the
3 treatment compound. The average flow rate during the
4 SVE operation was 900 standard cubic feet per minute.
5 As I stated earlier, the vapor treatment was with
6 activated carbon. And SVE was actively performed from
7 May '99 to January 2000. And the total mass of VOCs
8 removed was approximately 2,000 pounds.

9 By January of 2000, all of the vapor
10 concentrations were below the cleanup goals. Just prior
11 to that in December of '99, we had realized we were at
12 that point of cleanup. And in order to just verify that
13 we had removed as much mass as we technically and
14 economically could, we did some very high resolution
15 vertical profiling of concentrations with depth.

16 Although we were well below all the cleanup
17 levels, there were still some residual concentrations,
18 and we just wanted to identify where they were. And
19 this vertical profiling confirmed that most of the
20 residual VOCs were coming from groundwater. They were
21 mostly detected in the deep vapor wells right at the
22 interface with groundwater. There was no longer a
23 source going from the soil to the groundwater. The
24 concentrations that we were detecting were not from the
25 ground --

1 MR. DON ZWEIFEL: Jeff, can I ask you something, you
2 say high resolution, I'm presuming you are referring to
3 a camera or something?

4 MR. JEFF STANEK: No. There's a device -- there's
5 one proprietary device known as new log and that's what
6 we used. You lower it into a well and it actually will
7 record VOC concentrations with depth. And you have a
8 discreet profile throughout the entire.

9 MR. DON ZWEIFEL: Well, is it a sensor of some type?
10 It's not a video?

11 MR. JEFF STANEK: No, it's not a video. You
12 wouldn't be able to see the VOCs. It's actually a
13 measurement device that quantifies the total VOCs in
14 that well with respect to depth. So when I say "high
15 resolution," it's throughout the entire well screen. So
16 you have a graphical depiction of where the VOCs are
17 coming from a well.

18 MR. DON ZWEIFEL: I can't imagine -- if it's
19 proprietary, you can't tell me what it is? I'm
20 fascinated with this device. I guess it's new.

21 MR. JEFF STANEK: It's probably ten years?

22 MR. DON ZWEIFEL: Can you describe this device? If
23 it's not video, I can't imagine what it might be.

24 MR. ANDY PISZKIN: Can we discuss that later?

25 In essence, you put this probe or this

1 instrument that measures, you lower it very slowly into
2 the well, and every gradation it will sniff or it will
3 detect what the concentration of gas that would be in
4 the formation right at that discreet level.

5 So when he says "high resolution," it's not
6 every ten feet. It takes a reading, it's continuous.
7 So you can kind of see if there is anything coming out
8 of the formation.

9 Does that help? I can show you a picture.

10 MR. DON ZWEIFEL: I'm fascinated with it.

11 MR. JEFF STANEK: After you reach your cleanup
12 goals, the way to confirm that you've removed the
13 sources is to shut down the system and if there is any
14 appreciable mass that is left in the soil, your
15 concentrations will increase or rebound.

16 If there is not an appreciable source still
17 present in the soil, your concentrations will have
18 minimal increase or rebound. And that's exactly what we
19 saw. It was very minimal rebound, confirming that we
20 had, in fact, removed the source in the soil.

21 And this was all documented in a closure report
22 that was issued in June of 2002 and concurred on by the
23 regulatory agencies.

24 These are the -- this table shows the
25 concentrations, the maximum concentrations of the

1 various VOCs before cleanup, after cleanup in column
2 three. The middle column shows the cleanup goals. And
3 you will see the post-cleanup concentrations are
4 substantially lower than the cleanup goals. I would
5 also like to emphasize just how much -- just how
6 substantial the decrease in concentrations from before
7 cleanup to post-cleanup is.

8 If you look, just for example, TCE, it's less
9 than 1 percent of the pre-cleanup concentrations. And
10 that's about as good as it gets. So it confirms that
11 SVE is obviously the way to go.

12 This shows some typical SVE declining curves.
13 Some various wells at Site 24. And these are pretty
14 typical of SVE, get some quick decrease in concentration
15 which is an asymptotic. And what is important on these
16 curves is you will see after the shutdown period or the
17 rebound period there is no increase in concentration.
18 Again, confirming source removed. Continuing with the
19 remedy completion.

20 MR. DON ZWEIFEL: Looks like you have three wells
21 here 24SVE45, 49 and 67. Is that right?

22 MR. JEFF STANEK: Yes.

23 Somehow we're not able to show you slide
24 No. 22. It is in your handout. And this really bottom
25 lines the remedy completion. Essentially cleanup of

1 the -- based on the confirmation sampling, the vertical
2 profiling, the cleanup of Site 24 has been completed in
3 accordance with the 1997 Interim ROD.

4 The VOCs have been reduced to levels that are
5 protective of groundwater quality. We had known from
6 the RI the VOCs did not pose a huge risk to human health
7 even before cleanup. And that the Remedial Action
8 Objectives specified in the Interim ROD have been
9 attained. And therefore No Further Action is necessary
10 for Site 24.

11 MR. PETER HERSH: May I ask you, Jeff, looking at
12 the glossary I don't see a definition of RAO.

13 MR. JEFF STANEK: Remedial Action Objectives. And
14 Andy had spoken about those just slightly previous to
15 when I came up. And I can tell you which slide. Slide
16 13.

17 Now, typically once you finish the cleanup, you
18 document that in a closure report and you're done.
19 However, since the ROD was interim, we're going back and
20 we're going to redo, or do a Proposed Plan that will
21 specify No Further Action for Site 24 soil.

22 This Proposed Plan was made available to the
23 public on July 14th and was concurred with by the FFA
24 signatörs. The proposed plan invites public
25 participation during the public comment period that runs

1 from July 14th through August 12th. And obviously
2 includes this public meeting.

3 MR. DON ZWEIFEL: Jeff, may I say something? You
4 know I am the co-chair of the Restoration Advisory Board
5 for Tustin and I -- you know, I must say, Andy, I want
6 to say that it's fine to say NFA, but you are going to
7 have to have monitoring wells -- I used to be very
8 active in this RAB years ago, and I thought we agreed we
9 would have monitoring wells, and not just three
10 monitoring wells of course. I guess the question is,
11 "How many monitoring wells did we have?" Because we
12 want to be sure that you have enough monitoring wells to
13 determine -- we're concerned about Site 24, because we
14 really don't know what is in there. You agree -- I
15 don't care --

16 THE REPORTER: I cannot hear him.

17 MR. DON ZWEIFEL: The thing that I'm concerned about
18 is that we don't know what is in there. And, therefore,
19 you better have enough monitoring wells to determine
20 precisely what is in there.

21 MR. JEFF STANEK: There were 96 wells.

22 MR. DON ZWEIFEL: 96 wells. It's not the number of
23 wells, it's where these wells are placed and if the
24 wells are placed downgraded, that's fine, but I guess --
25 that's fine I guess. The question is, what -- does

1 everything -- are we all -- are we all in
2 (unintelligible).

3 THE REPORTER: I just can't hear him.

4 MR. ANDY PISZKIN: As Jeff just pointed out, the
5 slide before that -- I'm sorry, maybe the next one up.
6 The table.

7 Don, this is where we say the Navy proposes
8 that we are complete with this site and we have
9 concurrence from your state and federal agencies. This
10 is where the concentrations were, the first column.
11 This is what the Navy and the agencies as an interim
12 level said is safe. If you reach those, at least the
13 Navy said, we think by the math and the physics, that it
14 will be protective of the groundwater.

15 The chart that was just up shows that we got
16 pretty much less than half of those concentrations
17 throughout the area. And so there's -- especially with
18 the no rebound, we let this system set to see if
19 anything else would dissipate or bled out into the
20 formation or out from the formation. Nothing did.

21 MR. DON ZWEIFEL: How long did you wait? Because a
22 rebound --

23 MR. JEFF STANEK: Seven months.

24 MR. DON ZWEIFEL: Because precipitation -- we had a
25 heck of a lot of rainfall and -- usually that would

1 cause rebound if there's going to be a rebound.

2 MR. JEFF STANEK: Typical rebound periods are 30 to
3 90 days and we gave it seven months.

4 MR. DON ZWEIFEL: What did you allow in the
5 seven-month period? Did that include the time when we
6 got that tremendous rainfall?

7 MR. ANDY PISZKIN: I'm not sure what tremendous
8 rainfall you are talking about.

9 MR. DON ZWEIFEL: We had --

10 MR. ANDY PISZKIN: This is in 2000. It's not like
11 this last one. This is five years ago.

12 MR. DON ZWEIFEL: Oh.

13 MR. ANDY PISZKIN: And so we gave this plenty of
14 time, plenty evaluation to say this site is not causing
15 any contamination or migration of contaminants into the
16 groundwater.

17 MR. DON ZWEIFEL: When was the last time you ran
18 some tests to determine whether there had been a
19 rebound? It hasn't been since 2000, surely you hadn't,
20 been monitoring test wells -- testing since then.

21 MR. ANDY PISZKIN: Are you talking about monitoring
22 wells for groundwater or the soil vapor? This is about
23 the soils at Site 24. The groundwater is being resolved
24 or discussed and -- actually it's in construction now
25 for the remediation of the groundwater. This is the

1 soils only, Don. Does that help?

2 UNKNOWN SPEAKER: This is a monstrous system, 7,000
3 linear feet of piping, you pull out 2,000 pounds of the
4 VOCs in nine months between 1999 and 2000. Where is
5 this system going when it's not here? Is it going to go
6 back on base and back to Norton -- (unintelligible.)

7 THE REPORTER: I cannot hear this speaker. I cannot
8 hear.

9 MR. ANDY PISZKIN: The Navy retains ownership of
10 this. And it has not been decided what will be the fate
11 of this system.

12 UNKNOWN SPEAKER: Can we stick it in a hangar
13 someplace and tell the Navy we -- (unintelligible).

14 THE REPORTER: I cannot hear. I can't hear.

15 MR. ANDY PISZKIN: Who is "we"? It is government
16 property.

17 UNKNOWN SPEAKER: You can always auction it off.

18 MR. ANDY PISZKIN: Let's finish it up a little bit
19 and then we can have more of a discussion and then we
20 can have some kind of formal comment period.

21 UNKNOWN SPEAKER: (Unintelligible.)

22 THE REPORTER: I can't hear you.

23 MR. ANDY PISZKIN: We appreciate the Air Force for
24 doing that.

25 UNKNOWN SPEAKER: The Air Force?

1 MR. ANDY PISZKIN: Yes.

2 UNKNOWN SPEAKER: No charge?

3 MR. ANDY PISZKIN: No charge. It did cost something
4 to dismantle it, refurbish it and reconstruct it at El
5 Toro.

6 UNKNOWN SPEAKER: You need to speak up, she can't
7 hear you.

8 THE REPORTER: I am having a hard time hearing
9 anybody at that end.

10 UNKNOWN SPEAKER: The Navy just said they're going
11 to give it to the Val Holsen's (phonetic.)

12 MR. ANDY PISZKIN: The Navy did not say that, for
13 the record.

14 Let's continue. Okay.

15 MR. JEFF STANEK: Following the Proposed Plan will
16 be the final ROD for the Site 24 soil. And it will
17 include responses to the public comments on the Proposed
18 Plan, including any comments or questions from tonight's
19 public hearing.

20 It will formally document the attainment of
21 remedial action objectives and No Further Action of Site
22 24 soil. Once it's finalized, it will be signed by the
23 FFA signators. And it's scheduled for completion in
24 November of 2005.

25 MR. ANDY PISZKIN: Submittal comments.

1 Thank you very much, Jeff.

2 UNKNOWN SPEAKER: Do you have a standard to work
3 with for groundwater?

4 MR. ANDY PISZKIN: Yes, drinking water standard.

5 UNKNOWN SPEAKER: What?

6 MR. ANDY PISZKIN: Drinking water standard.

7 UNKNOWN SPEAKER: Because that groundwater changes
8 all the time in Industry, all the way from Norton clear
9 down to here, there are all kinds of plants and all of
10 them are dumping their waste into the ground, so the
11 water is not always the same.

12 MR. ANDY PISZKIN: We're not downgradient it from
13 Riverside.

14 UNKNOWN SPEAKER:

15 MR. BRUCE F. BAUER: I know, but I work in Long
16 Beach where we were using Artisan water for a while and
17 got too much oil in the local oil wells and could not
18 use Artisan water anymore.

19 MR. ANDY PISZKIN: El Toro is not downgradient of
20 Long Beach. We've evaluated the groundwater at El Toro
21 substantially. Orange County Water District says
22 evaluated the groundwater in this whole region, the
23 sub-basin extensively. Irvine Branch Water District
24 also has -- this is the VOC source area that had
25 contaminated groundwater under El Toro.

1 You are correct, there is a lot of groundwater
2 issues in the country and in Southern California. The
3 ones you're talking about don't relate to El Toro's
4 concerns tonight, but I appreciate the comment.

5 Peter, I'm going to tell you how we can submit
6 comments officially. You can fax them to me. You can
7 e-mail them to me. I'm sorry, e-mail them to Content
8 Arnold. You can fill out this form. You can talk to
9 Laura, the court reporter. Written comments need to be
10 in, pretty much postmarked, no later than the 12th of
11 August.

12 MR. BOB COLEMAN: What I wanted to suggest was, if
13 you have a comment, to please state your name, spell it
14 out and the city you live in, so Laura can get that on
15 the record.

16 If you have already done so, made a comment,
17 please make sure that you go over there and tell her
18 your name, spell it out and the city you live in.
19 Thanks.

20 MR. ANDY PISZKIN: Okay. So I would like to open up
21 for -- I know we're running a little late, but it's been
22 a good meeting so far. I'm going to take Peter first.

23 MR. PETER HERSH: I would like to pick up a little
24 bit at, you're looking at an interim ROD having an
25 issue, we concluded this process back in January of

1 2000, it's now five years later.

2 I guess my comment would be something to the
3 effect, we have in slides Nos. 19 and 20 -- if we can
4 confirm that the maximum of post-cleanup concentrations
5 have not changed over time, I think that would help in
6 my comfort level. And I don't know if that's where Don
7 was doing on his comment, but the five years have
8 passed, maybe nothing has changed, maybe the cleanup is
9 fully completed, but I think that would help the
10 conclusion that we're not being asked to support a ROD,
11 and I think it's valid. But if there is something that
12 could be done and responded to to help our comfort level
13 based on your experience and maybe the experience at
14 Norton that there is little or no likelihood that these
15 levels will go up.

16 That's my comment.

17 MR. ANDY PISZKIN: Peter, can you state and spell
18 your name and where you're from.

19 MR. PETER HERSH: I'm sorry. It's Peter Hersh,
20 H-e-r-s-h. I live in the City of Laguna Niguel and I am
21 a RAB member.

22 MR. ANDY PISZKIN: Thank you.

23 MR. GREG HURLEY: Greg Hurley, City of Laguna Beach,
24 RAB member. Can you summarize the undersoil of VOC
25 actions that are happening?

1 MR. ANDY PISZKIN: I'm not going to do that at this
2 meeting, because this is focused on the soil.

3 Don.

4 MR. DON ZWEIFEL: Name is Don Zweifel, Placentia.

5 MR. ANDY PISZKIN: Spell it.

6 MR. DON ZWEIFEL: Z-w-e-i-f-e-l.

7 You know, I must admit that this sounds well
8 good on the surface, however, the thing is, you know,
9 what Andy is saying, "Well, there hasn't been a rebound
10 yet. We only looked at it on a narrow window for seven
11 months of opportunity." I am saying, "Wait a minute."
12 You know, I remember some comments from the employees at
13 MCAS El Toro that told me they buried barrels of
14 contaminants. And why did they do it? I don't know if
15 that's important right now. I can tell you later about
16 why they did it -- but actually it had to do with the --
17 if it was a half-filled barrel of PCE, they had to
18 remove that barrel because they wouldn't get a full
19 barrel or -- barrels of PCE is vital for cleaning
20 aircraft, they had to have it. The thing is, I'm
21 saying, there are probably barrels buried down here and
22 they are sealed and they are coated, but the thing is,
23 eventually you've got to face it, those barrels are
24 going to leak. They will leak. Maybe they haven't
25 leaked yet, but they eventually will leak.

1 We really don't know -- you say, "Oh, we're
2 going to have a site characterization." You have never
3 done a site characterization. You can't. You're not a
4 magician.

5 There is no way you can determine that -- you
6 cannot do a characterization of that site. I'm sorry,
7 you can't do it. I mean we would love to, I wish you
8 could, but I know that there are barrels down there. I
9 don't know how many and I know that employees -- Miller
10 Jackson, he was in charge with the physical plant at El
11 Toro years ago, and he said that he knows what they did.
12 When the MG inspection was about to come, they buried --
13 he didn't say where. I don't know if he is alive
14 anymore. I talked to him ten years ago about this.

15 And remember, Andy, I told you about this.
16 And, Content, I already mentioned it to her, most of you
17 guys know. I am just reiterating an old song.

18 The thing is, ladies and gentlemen, this is a
19 great concern to me. What is going to happen to those
20 barrels? Right now it appears everything is okay, but
21 the thing is, I think those barrels will eventually
22 leak. And I don't know how many of them there are, but
23 I am almost sure there are some barrels there.

24 So what I am proposing, if I may, is that
25 continued monitoring of Site 24 on the periphery,

1 downgradient mind you, for, I don't know, maybe, five,
2 ten, 15, 20 years maybe. Because it will take a while
3 for those barrels to leak, especially if they are
4 coated. And most of the barrels were. And you may say,
5 "Well, how long is it going to take to erode a steel
6 barrel?" Who knows. It's hard to say. But I'm saying
7 that eventually those barrels will leak.

8 We tentatively or at least potentially think
9 they are there, that's why I'm proposing -- I'm sorry,
10 you're going to have to monitor this site for years and
11 years to come to make sure that those barrels, that are
12 probably there, don't leak. And if they do leak, then
13 you're going to have to come back and -- see I'm worried
14 about the City of Irvine and Lennar and -- because
15 you're going -- I mean restrictive covenants on this
16 site, until you can guarantee that. If you want to sign
17 off on this and say, "There is not going to be any more
18 contamination from this site. You can go ahead." Well,
19 that's great, but your neck should be on the line. And
20 if they find that these barrels have leaked, if they are
21 truly there, well, then you are going to have to come
22 back, the Navy is going to have to come back and solve
23 that problem. And you're going to have to promise
24 that -- the Department of the Navy is going to have to
25 promise us that they are not going to leak. And if they

1 do, you are going to have to come back and remediate.

2 MR. ANDY PISZKIN: So your comment is the Navy
3 should do long-term monitoring downgrading of Site 24?

4 MR. DON ZWEIFEL: That's all. I know there is going
5 to be some cost involved, but hopefully it wouldn't be
6 too consequential.

7 MR. ANDY PISZKIN: Any more questions or comments?

8 MR. GREG HURLEY: Greg Hurley, H-u-r-l-e-y, RAB
9 member.

10 Don's comment reminded me of the late Dr. Chuck
11 Bennett's concern years ago, that the source area of the
12 groundwater of VOCs was not Site 24, it was actually
13 much more dispersed in general. There is no evidence of
14 that, but just a comment, I believe going back for the
15 ten plus years we've been here, that maybe Site 24 isn't
16 the source area; notwithstanding that we have the
17 desalter in place with groundwater controls. But the
18 reality, I think what Don is saying, if I am
19 paraphrasing it, is there is probably other contaminated
20 soil out there and Site 24 isn't the end of it. And not
21 withstanding the fact they're are still open to
22 mediation, I don't know if there is any investigations.

23 MR. ANDY PISZKIN: Okay. Thank you.

24 Larry.

25 MR. LARRY LAVEN: Well, this soil --

1 MR. ANDY PISZKIN: State your name and spell it.

2 MR. LARRY LAVEN: Oh, sorry.

3 My name is Larry Laven and I'm from Anaheim.

4 MR. ANDY PISZKIN: Spell your last name.

5 MR. LARRY LAVEN: All right. L-a-v-e-n.

6 MR. ANDY PISZKIN: Thank you.

7 MR. LARRY LAVEN: And if the soil vapor extraction
8 works so well in the soil, how come they don't just pump
9 up the water, let it run down into the soil and use it
10 to clean the water as it seeps through the soil, if it
11 works so well? It's going to take, what, 60 years,
12 50 years to clean this water? And you say that to get
13 this stuff out of the soil is a cinch, compared to
14 getting it out of the water. So why don't they just
15 pump it up, let it go down through the soil and extract
16 it?

17 MR. ANDY PISZKIN: Okay. Thank you.

18 Any other comments or questions?

19 MR. DON ZWEIFEL: Andy, just one question.

20 MR. ANDY PISZKIN: You're not up.

21 MR. ROY HERNDON: Procedural question, it's really
22 not a comment.

23 MR. ANDY PISZKIN: Who are you?

24 MR. ROY HERNDON: Roy Herndon, Orange County Water
25 District.

1 I am just curious why three years between the
2 time of the Closure Report acceptance by the regulatory
3 agencies and actually finally going through this No
4 Further Action. It seems like three years is a long
5 time. You pretty much have the Closure Report accepted.
6 Is there procedural reasons for that? Seems like you
7 knew what you wanted to do three years ago. I'm
8 surprised we didn't get through this sooner than that.
9 I am sure you had your priorities, but I'm just curious.

10 MR. ANDY PISZKIN: Good question. We'll answer
11 that.

12 I'm hearing from the staff and the consultants
13 it was an interim ROD. Part of the discussion I know
14 early was we're done, we have a Closure Report, everyone
15 concurs upon it. Do we -- is an explanation of
16 significant differences a way to close out the record
17 decision? Is that enough protocol to say "We're done"?
18 We have all your representatives' support and
19 concurrence. Is that acceptable? No, let's make sure
20 we go beyond that. We had record of decision. We did
21 more than what we expected to do and we can just put a
22 public notice out saying, "Here. You are done." We
23 wanted to go beyond that. So there was a little bit of
24 a discussion of, there is no immediate need to say
25 hurry, we're done. And so there is a little bit of

1 interim discussion done amongst us and the regulatory
2 agencies. Actually the representative of EPA at the
3 time, Nicole Moutoux, she suggested, "No, don't do an
4 explanation of significant differences for the ROD, to
5 make it from interim to final. This is a success story.
6 You should actually go back out and say, 'There was a
7 concern, it was fully addressed, better than expected.'
8 And go out and say, 'Let's close this success story out.
9 And let's do it as the highest level of formality under
10 the law.'"

11 And so it wasn't an immediate need to basically
12 document what we have done. We did have concurrence on
13 the close-out reports and it just took a little time to,
14 you know, get our resources back and address them.
15 That's probably more of what really happened.

16 Any other comments, questions?

17 Well, if that's it, there is a meeting
18 evaluation. If anybody would like to fill that out, we
19 would appreciate it.

20 And if someone still has comments on a form or
21 on a card or still wants to sit down with the court
22 reporter, we will keep it open for a while. We will
23 even defer or delay our Restoration Advisory Board
24 start, if there are some comments that we need the court
25 reporter.

1 So we are here to take your opinions. If you
2 do have a comment or question, please get to it. Just
3 say, Here is what my comment or concern or my question
4 is, versus a dissertation, if you can.

5 So -- Don, is this another question?

6 MR. DON ZWEIFEL: Yes. I would like to ask that I
7 receive -- if it's possible, I would like to receive a
8 response from Brigadiers in regards to my comments, if
9 that's possible, and from Southwest Division, if you
10 could. If you would like to -- I think the regulators,
11 I would love to hear what they say, and the Water
12 Quality Control Board, and the DTSC (unintelligible).

13 MR. ANDY PISZKIN: There is a handout that I showed
14 before you got here, Don, of the points of contact for
15 El Toro that also includes your state and federal
16 representatives, as well as we get some more information
17 on information that we presented here.

18 The record of decision will be written next and
19 it will include a responsiveness summary that will have
20 a response to pertinent comments associated with this
21 site and the questions that will have been asked tonight
22 as well as whatever is submitted to me or the Navy prior
23 to the cutoff, August 12th.

24 So you can also -- behind you is the state and
25 federal representatives, but you can also get their

1 phone number or address from this document on the table.

2 MR. DON ZWEIFEL: I want to say one thing about the
3 aquifer. Assume, everybody assumes, Oh "the aquifer is
4 impermeable." Well, I just don't think it is. It may
5 be mostly, but one cannot say beyond a shadow of a doubt
6 that the aquifer is absolutely impermeable. You know
7 what I'm referring to, the principal aquifer could
8 conceivably be impacted. One could say theoretically
9 the aquifer should work, it will provide an interface,
10 it will be, you know, completely impermeable.

11 You can't say that, can you?

12 MR. ANDY PISZKIN: Larry, you had another question?

13 MR. LARRY LAVEN: When he was talking about that
14 probe, I was thinking what is most important is that
15 when they -- you had a chart up there earlier that
16 showed the preconditions when it was contaminated and
17 then the acceptable levels. And then they showed --
18 yeah, that chart there -- and when they took the test
19 that showed the Trichloroethene and the
20 Tetrachloroethene at the 6,120 level and 192 level, that
21 they use the same tests or probe going down through, I
22 guess, a well. But if they got those numbers with a
23 different test, it's really irrelevant to show progress,
24 because the tests were not the same.

25 MR. ANDY PISZKIN: Jeff, can you?

1 MR. JEFF STANEK: The sampling methods were
2 consistent. The probe that you are referring to was
3 used as a diagnostic tool to indicate that we had, in
4 fact, reached our cleanup goals.

5 Now, these results here are not based on that
6 diagnostic tool. The probe that was lowered in the hole
7 would get total VOCs. These results shown on the graph
8 here were laboratory analyses, very comprehensive
9 laboratory analyses, so that all of the pre- and
10 post-clean up concentrations you see up there were
11 evaluated in a consistent manner.

12 MR. ANDY PISZKIN: Thank you.

13 MR. LARRY LAVEN: But the probe makes you think that
14 the vapors come out of the site of the dirt, which
15 doesn't make sense because the VOCs are heavy and they
16 go straight down. They shouldn't really go to the site
17 into a well that is designed to draw water up.

18 And I have another comment.

19 MR. ANDY PISZKIN: You want that open or can you
20 provide that to the court reporter afterwards? I want
21 to kind of close up.

22 MR. LARRY LAVEN: Well, it's quick.

23 Then the picture that you showed of the wells,
24 and it showed the direction of the VOCs going through
25 the piping, technically doesn't work for the same reason

1 that when you fill up a gas can with gas, you try and
2 put it in your tank, it don't come out of that gas can
3 until you take that other little cap off, so that the
4 air can go through the can. Your picture there doesn't
5 show a pipe going down to let air in, you just figure
6 it's coming from the surface.

7 MR. ANDY PISZKIN: Actually the surface of the
8 ground is not sealed like a gas can, so air can come
9 from outside of the contaminated area and travel from
10 the surface or from a clean area and go through the
11 contaminate area and up and be treated.

12 So it's not like a closed gas can.

13 This will be the last comment or question.

14 MR. GREG HURLEY: I will be short.

15 Does the Site 24 soil automatically get dropped
16 in the Voss (phonetic) property and transferred without
17 restrictions?

18 MR. ANDY PISZKIN: The property at El Toro is
19 transferred not in layers. It is transferred pretty
20 much all the way through. So even though -- if you
21 would put up the slide, probably the first site
22 description.

23 As you notice the investigation area of Site 24
24 is this location. This shaded part beneath it is a
25 depiction of the contaminated groundwater.

1 As an example, if the soil is deemed remedied
2 to the levels required by law, then the soil would be
3 released from its restrictions.

4 However, property that may be clean above the
5 plume would not be transferable, because the
6 contamination of the groundwater is not at a finest
7 suitability to transfer level.

8 Does that answer your question?

9 MR. GREG HURLEY: So Site 24 at the site of this ROD
10 will stay in Navy hands or will transfer?

11 MR. ANDY PISZKIN: As the depiction on this chart,
12 this portion over here that does not have contamination
13 below the soil, that would be transferable.

14 This portion that has an environmental media of
15 concern that has not been released by the regulatory
16 agencies, would not be transferable.

17 MR. GREG HURLEY: So there is further regulatory
18 action before this transfers then?

19 MR. ANDY PISZKIN: Before anything associated with
20 the property in the column that still requires
21 investigation and/or remediation.

22 MR. GREG HURLEY: Okay.

23 MR. DON ZWEIFEL: Percentages of what will not be
24 transferred roughly?

25 MR. ANDY PISZKIN: I don't know.

1 MR. DON ZWEIFEL: Quarter of it or something?

2 MR. ANDY PISZKIN: There may be an area that is not
3 necessarily just the groundwater. If there's an
4 underground storage tank that is also within the
5 investigation area of Site 24 that has not been
6 addressed, that portion of that same overlapping area
7 would not be transferable until all remedial actions or
8 investigations for that specific concern have been
9 addressed.

10 So it's difficult for me to say what would
11 happen, because this map is only depicting the soil
12 investigation area as well as related groundwater
13 contamination.

14 MR. DON ZWEIFEL: So you are saying that Lennar
15 really can't build or if they do build there are going
16 to be deed restrictions?

17 MR. ANDY PISZKIN: I'm not saying that.

18 MR. DON ZWEIFEL: If there is going to be deed
19 restrictions until that you a -- all of Site 24 is
20 remediated. Isn't that true? Sure there has to be --

21 MR. ANDY PISZKIN: No.

22 MR. DON ZWEIFEL: Why not? How can you have -- how
23 can you transfer land that's contaminated? You can't do
24 that.

25 MR. ANDY PISZKIN: This is a little off of what this

1 project is associated with; however, it's pertinent to
2 this discussion and is -- I can answer it.

3 This groundwater that is contaminated because
4 of the VOC source, VOC contaminated soil migrated into
5 the groundwater, that groundwater can have a remedial
6 action in place. For instance, we're constructing an
7 extraction system for the groundwater, to remediate the
8 groundwater. If it has been determined by the U.S. EPA
9 that that system is operating properly and successfully,
10 there and then that property associated with that
11 contamination can be transferred even prior to it being
12 remediated to the final extent.

13 So property can be transferred that is still --
14 that still requires remedial action.

15 MR. DON ZWEIFEL: There will be deed restrictions?

16 MR. ANDY PISZKIN: That wasn't initially your
17 question. There is a difference between -- it doesn't
18 all have to be remediated to its final No Further Action
19 status prior to being able to be -- able to be
20 transferred.

21 MR. DON ZWEIFEL: I want you to admit there will be
22 deed restrictions.

23 MR. ANDY PISZKIN: There will be restrictions
24 associated with property that has been transferred that
25 still requires Navy action, because the use of the

1 property cannot interfere with the Navy's continued
2 investigation, monitoring or remediation of our
3 contamination is concerned. So, yes, there would be
4 restrictions. It does not preclude possibly some
5 level --

6 MR. DON ZWEIFEL: You mean -- certainly not --

7 THE REPORTER: I cannot hear you.

8 MR. DON ZWEIFEL: -- we can talk about dirty
9 (unintelligible) -- that factors into the equation --

10 MR. ANDY PISZKIN: If it is associated with dirt, it
11 wouldn't be associated with groundwater.

12 MR. DON ZWEIFEL: Right.

13 MR. ANDY PISZKIN: Again, if you have a meeting
14 evaluation, please fill it out. If you do have any
15 comments, hopefully short as can be, we will have Laura
16 stay here for a while and we will kind of defer the
17 start of our Restoration Advisory Board meeting.

18 I appreciate everyone's attendance. The Navy
19 does appreciate your participation, your input, your
20 comments. And this meeting is officially adjourned.

21 Thank you.

22 (The meeting was adjourned at 7:54 p.m.)

23

24

25

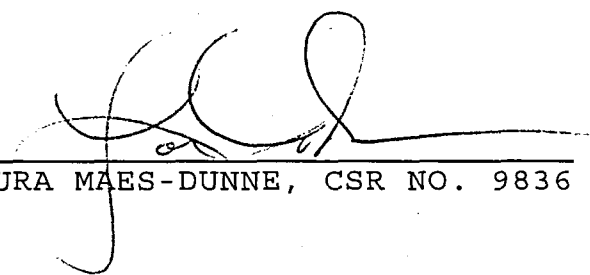
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And I further certify that I am a disinterested person and am in no way interested in the outcome of said action, or connected with or related to any of the parties in said action.

IN WITNESS WHEREOF, I have subscribed my hand this 1st day of August, 2005.



LAURA MAES-DUNNE, CSR NO. 9836



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Contract No. N-68711-00-D-0004

File Code: 126463-002/2.8

TO: Contracting Officer
Dept. of the Navy
Base Realignment and Closure
Program Management Office West
1455 Frazee Road, Suite 900
San Diego, CA 92108-4310
Attention: Gracy Tinker

DATE: 11/29/05
D.O. # 0069
LOCATION: MCAS El Toro

FROM: Bob Coleman

Bob Coleman
Project Manager

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